



<b>DATA SHEET</b>	<b>70388725</b>
<b>LAPPKABEL SERVO Cables LK – CTX</b> <b>Encoder-/ Resolver Cable</b>	Valid up from : 01.12.2007

## Application

LAPP LK CTX Encoder-/Resolver Cables, suitable for Control Techniques\* Power Drive Systems. The highly flexible Versions (P/N 70388726) are suitable in continuous flexing (i. e. Power Chains) at ordinary duty, as well as for static usage. Intended Usage Profile: Interconnection between Frequency, Converters and Servo Drives. Typical Fields of Applications: Industrial Machines, such as Machine Tools, Production Plants, Handling Systems, Body Press, Transfer Lines. USA: According NFPA 79 Ed. 2007 accepted only, when part of a listed assembly. Outside of the USA, these cables can be used in dry wet and damp locations, also into the open under respect of its recommended temperature ratings. All cables are increased resistant against oils and coolants, CFC- free, free of lacquer destructive substances. Made of halogen-free materials. Usage of these cables inside moving cable carriers respectively in motor drum guidance or under strain of more than 15N/mm<sup>2</sup> is not allowed.

**Technical Datas:**      **70388725 Resolver Cable 6x2x0,34+(1x2x0,34)+(1x2x1)**

### Signal section 6x2x0,34+(1x2x0,34)

<b>Conductor 0,34mm<sup>2</sup></b>	stranded tinned copper
<b>Cond. Insulation:</b>	Polyolefine
<b>Cond. ident code:</b>	<b>6x2x0,34mm<sup>2</sup>:</b> green+yellow – grey+pink – blue+red – black+violet – grey/pink+red/blue – white/green+brown/green
<b>Cond. ident code:</b>	<b>(1x2x0,34mm)<sup>2</sup>:</b> white+brown
<b>Pair screening:</b>	<b>(1x2x0,34):</b> Aluminium/Tft- Foil + drain wire

### Power section (1x2x1)

<b>Conductors 1,0mm<sup>2</sup>:</b>	stranded tinned copper wires
<b>Insulation:</b>	Polyolefine
<b>Cond. Ident Code:</b>	red, blue
<b>Make-up:</b>	Conductors and Pairs twisted together in short lay lengths to form cables core.
<b>Screen</b>	Overall screen: Braid made of tinned copper wires, coverage: ≥ 85%
<b>Outer sheath:</b>	PUR oil resistant, halogen free, flame retardant acc. IEC 60332.1-2, UL/CSA: FT 1, green (RAL 6018)
<b>Outer Diameter:</b>	Nom: 10,9mm
<b>Rated Voltage:</b>	30V (UL/CSA) 350Vpp (IEC)
<b>Test voltage</b>	2000 V
<b>Temperature range</b>	Flexible usage: -20°C up to + 80°C (max. core temp)

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Static usage: -50°C up to + 80°C (max. core temp)

**Minimum bending radius** Flexing use: 10 x cables outer diameter,  
Static use: 7,5 x cables outer diameter.

**Oil resistance** Acc. IEC 60811-2-1

**Approvals** UL AWM, CSA AWM I/II A/B

#### Servo Cable Imprint Legend:

LAPP KABEL STUTTGART SERVO LK CTX DESINA 6x2x0,34+(1x2x0,34)+(1x2x1) --- E63634  AWM 80°C  
30V – 214533M CSA AWM I/II A/B 75°C 30V FT1 ROHS Art. Nr. 70388725

#### Electrical Characteristics:

**0,34mm<sup>2</sup> Pairs:** Capacitance Cond/Cond: nom. 60 pF/m  
Capacitance Cond/Shield: nom. 108 pF/m  
Nominal Impedance: 85 Ohm at 1 MHz

\* Control techniques is a registered Trademark of Control Techniques GmbH, Meysstraße 20, D 53773 Hennef, Germany, a Member of the Schneider Electric Group, used at this document for comparing purpose only.

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